

(12) UK Patent Application (19) GB (11) 2 368 005 (13) A

(43) Date of A Publication 24.04.2002

(21) Application No 0104873.5

(22) Date of Filing 27.02.2001

(30) Priority Data

(31) 20061534

(32) 19.10.2000

(33) KR

(71) Applicant(s)

Samsung Kwangju Electronics Co., Ltd.
(Incorporated in the Republic of Korea)
271 Oseon-dong, Kwangsan-gu, Kwangju-city,
Republic of Korea

(72) Inventor(s)

Jang-keun Oh

(74) Agent and/or Address for Service

Withers & Rogers
Goldings House, 2 Hays Lane, LONDON, SE1 2HW,
United Kingdom

(51) INT CL⁷

A47L 9/16, B04C 5/187

(52) UK CL (Edition T)

A4F FFD

B2P P10B2A2

(56) Documents Cited

GB 2321181 A

WO 99/34722 A

US 5779745 A

(58) Field of Search

UK CL (Edition S) A4F FFD, B2P

INT CL⁷ A47L 9/16, B04C

(54) Abstract Title

Upright-type vacuum cleaner with removable cyclone dust collecting means and filter

(57) An upright-type vacuum cleaner includes a cleaner body 10, motor chamber 12, suction brush 20, cyclone dust collecting means 30, and filtering means 40. The cyclone dust collecting means 30 is removably disposed in a dust collecting chamber 11 in the cleaner body. The suction brush draws air and contaminants from a cleaning surface into the cleaner body. The air follows the intake duct 14 to the dust collecting chamber inlet port 11a and then enters the cyclone body 31 via channel 36. The cyclone dust collecting means induces the air and contaminants into a vortex to separate by centrifugal force large particle contaminants from the air and to collect the contaminants. The cyclone dust collecting means has a centrifuging portion 32 from where contaminants are discharged to a dust receptacle 33 via a slot 32c. The centrifuged air is then discharged from the cyclone dust collecting means via channel 37 and leaves the dust collecting chamber via port 11b, from where it passes through a filter 41 further reducing fine contaminants entrained in the air.

FIG.1

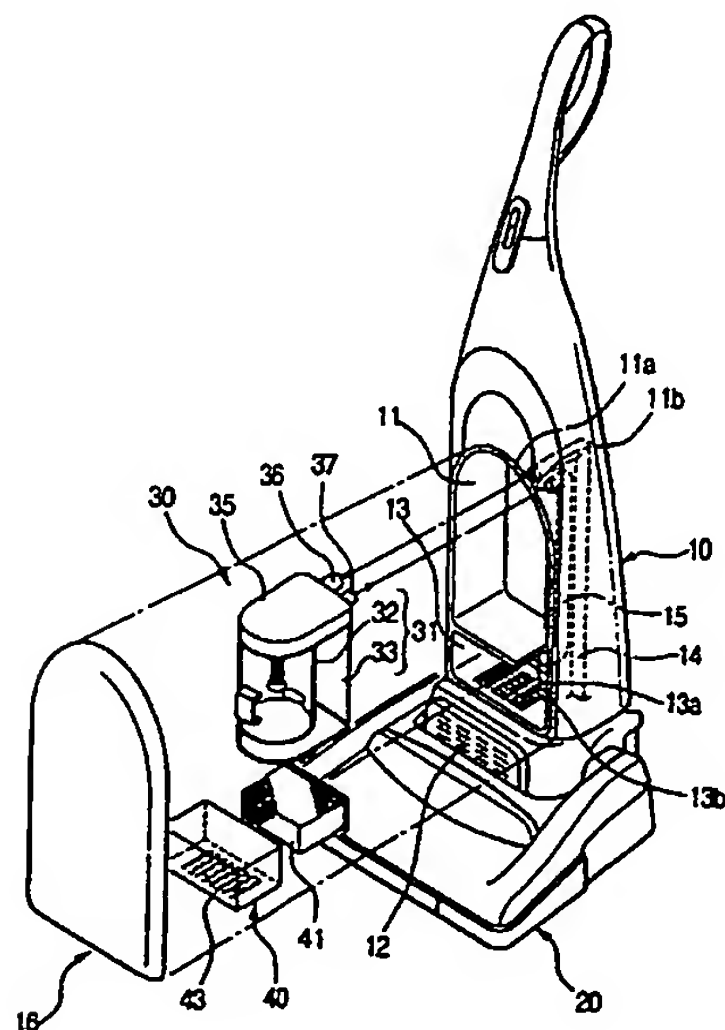
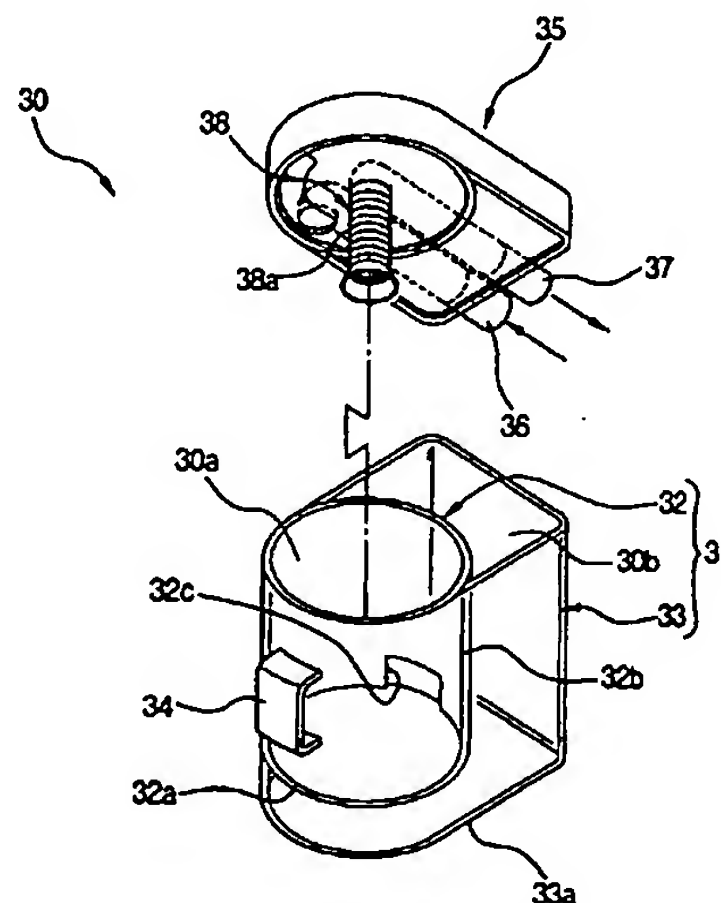


FIG.2





GB 2 368 005 A

Upright-type vacuum cleaner with removable cyclone dust collecting means and filter

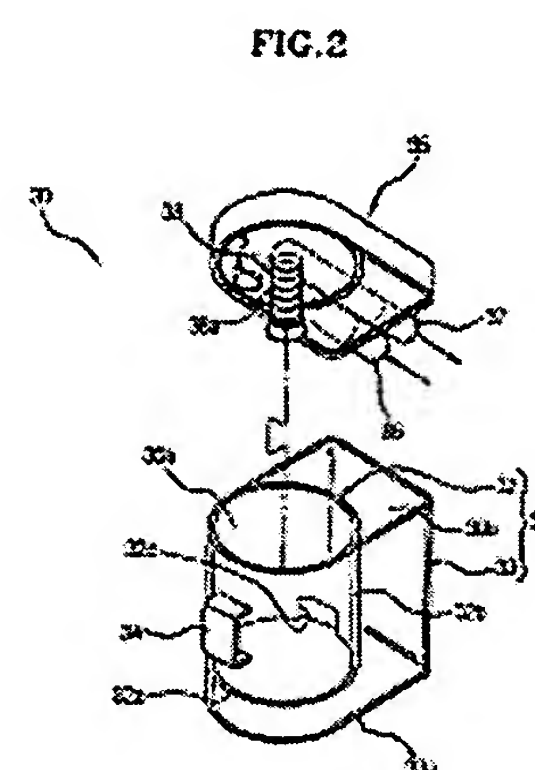
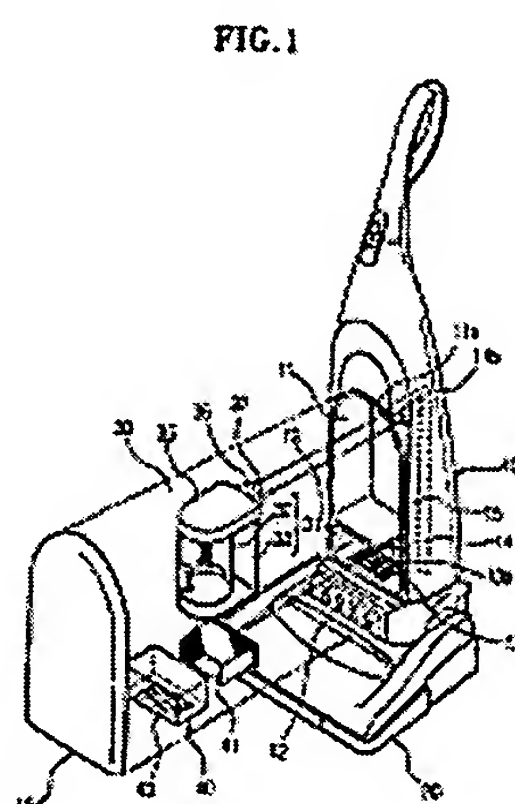
Patent number: GB2368005
Publication date: 2002-04-24
Inventor: OH JANG-KEUN (KR)
Applicant: SAMSUNG KWANGJU ELECTRONICS CO (KR)
Classification:
 - international: A47L9/16; B04C5/187
 - european: B04C5/185, A47L5/28, A47L9/16, B04C5/13
Application number: GB20010004873 20010227
Priority number(s): KR20000061534 20001019

Also published as:

 US6532620 (B2)
 US2002046438 (A1)

Abstract of GB2368005

An upright-type vacuum cleaner includes a cleaner body 10, motor chamber 12, suction brush 20, cyclone dust collecting means 30, and filtering means 40. The cyclone dust collecting means 30 is removably disposed in a dust collecting chamber 11 in the cleaner body. The suction brush draws air and contaminants from a cleaning surface into the cleaner body. The air follows the intake duct 14 to the dust collecting chamber inlet port 11a and then enters the cyclone body 31 via channel 36. The cyclone dust collecting means induces the air and contaminants into a vortex to separate by centrifugal force large particle contaminants from the air and to collect the contaminants. The cyclone dust collecting means has a centrifuging portion 32 from where contaminants are discharged to a dust receptacle 33 via a slot 32c. The centrifuged air is then discharged from the cyclone dust collecting means via channel 37 and leaves the dust collecting chamber via port 11b, from where it passes through a filter 41 further reducing fine contaminants entrained in the air.



Data supplied from the esp@cenet database - Worldwide